

# Digital Training Facility Layout

**4.5Mbps  
Facilitates  
Near Real  
Time  
Streaming  
Video&  
Simulations**



TADLP Viewer version 2 (15FEB01).exe

## **Video Tele-training (VTT) Equipment**

- 2 35" TVs
- 30 Frames per second VTT
- Student Camera
- VCR
- Speakers
- Automatic Gate
- Microphone Mixer
- Pentium II 233MHZ CPU
- Wireless Mouse
- Infra-Red Keyboard
- T1 Line  
(384 KBPS/2 way Audio-Video)

## **12/16 Student Workstations**

- Push to Talk Mics
- Office 97 Pro
- Modular Furniture
- Adjustable Chairs
- Win NT 4.0
- Internet Explorer
- Pentium II 400 Mhz.
- CD ROM Drives
- 64Meg Ram
- 10/100 Mbps Network card
- Stereo Headphones

## **Comm Rack (Private Network connection)**

- 24 port 10/100 Switch
- 24 port Patch Panel
- Pentium III 500 Mhz Xeon NT Servers
- Router
- CSU/DSU
- UPS

## **Comm Rack (NIPRNET Connection)**

- 24 port 10/100 Switch
- 24 port Patch Panel
- Pentium III 500 Mhz Xeon NT Servers
- Encryption and Encapsulation Device
- UPS

# Layout

## **DTF Manager Workstation**

Same as Student with: Omni Directional Microphone; Document Camera (ELMO); Customized Desk HP LaserJet; HP Color Ink Jet (Scan, Fax Copy, Print); 900 MHz Cordless Telephone

## **Video Tele-training (VTT) Equipment**

2 ea 35" TVs and Cabinets; 30 Frames per second VTT; Student Camera; VCR; Speakers; Automatic Gate; Microphone Mixer; Pentium2-4, 233Mhz - 1.7Ghz CPU; Wireless Mouse; Infra-Red Keyboard; T1 Line (384 KBPS/2 way Audio-Video)

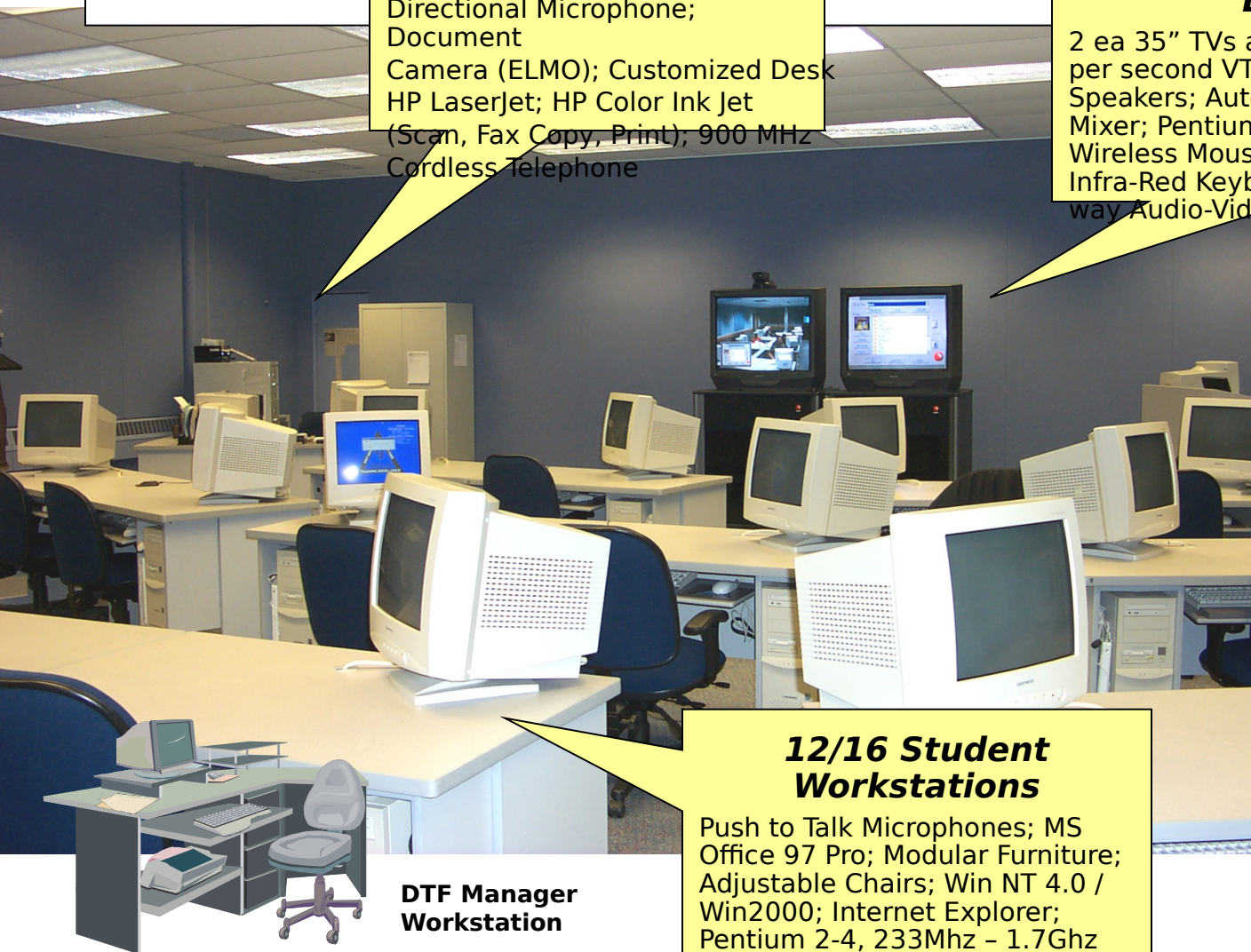
## **Classroom Modernization**

- Acoustic Walls & Ceiling Tile
- Parabolic Lighting
- ADA Accessible Classrooms
- Carpet
- Cable Management System
- Category 5 Cable
- 100 amp Electrical Panel
- IBM Netfinity Server
- CISCO Switch
- Netfortress Encryption Encapsulation Device, EED
- Uninterruptible Power Supply
- Cabinet

## **12/16 Student Workstations**

Push to Talk Microphones; MS Office 97 Pro; Modular Furniture; Adjustable Chairs; Win NT 4.0 / Win2000; Internet Explorer; Pentium 2-4, 233Mhz - 1.7Ghz CPU; 20Gb Hard Drive; 52 x CD-ROM

**DTF Manager Workstation**



# Mission Status Roll-up

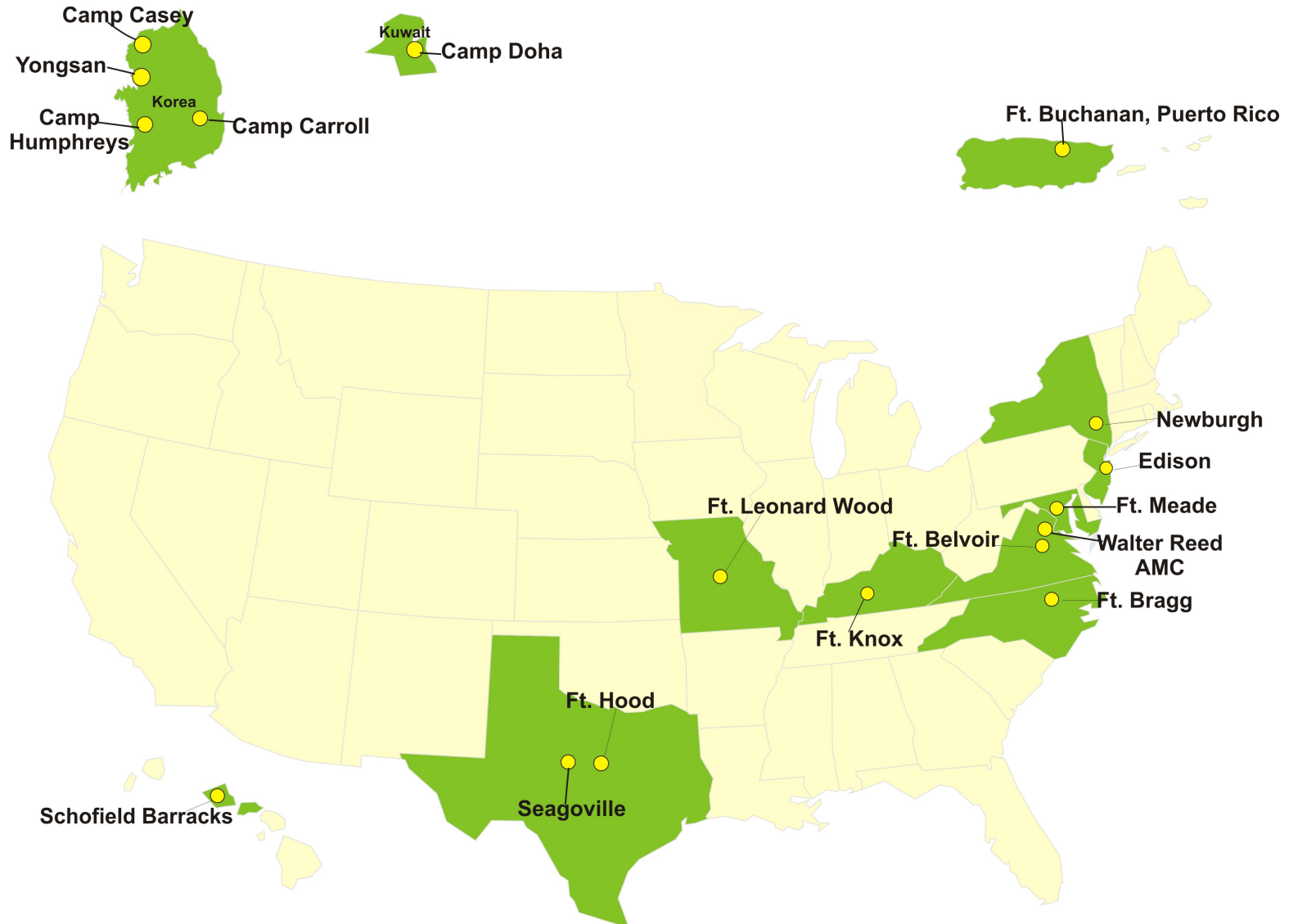
Program	Total	Complete	Pending	Issues/Comments
<b>TADLP DTFs</b>	379	247	132	
<b>TADLP Courseware</b>	210 (thru FY03)	92	77	None
<b>CRXXI Classrooms</b>	277 (thru FY09) 15 DTACs 200-Seat VTT	58 15 DTACs 200-Seat VTT	219	Each installation receives 1 DTAC and 2 system administrators
<b>TATS-Courseware</b>	404	378	5 under development; 26 under review	None
<b>MTP Update</b>	414	252 MTPs have Chapters 2 and 5 loaded on RDL or all chapters are complete	162 requirements remaining	FY 03 goal is to complete/load all chapters and authenticate with USAPA.
<b>QA Offices</b>	25	23	2	Completing Hiring Actions

**Comments:** Chapter 2 identifies all METL tasks; Chapter 5 Execution & Evaluation.

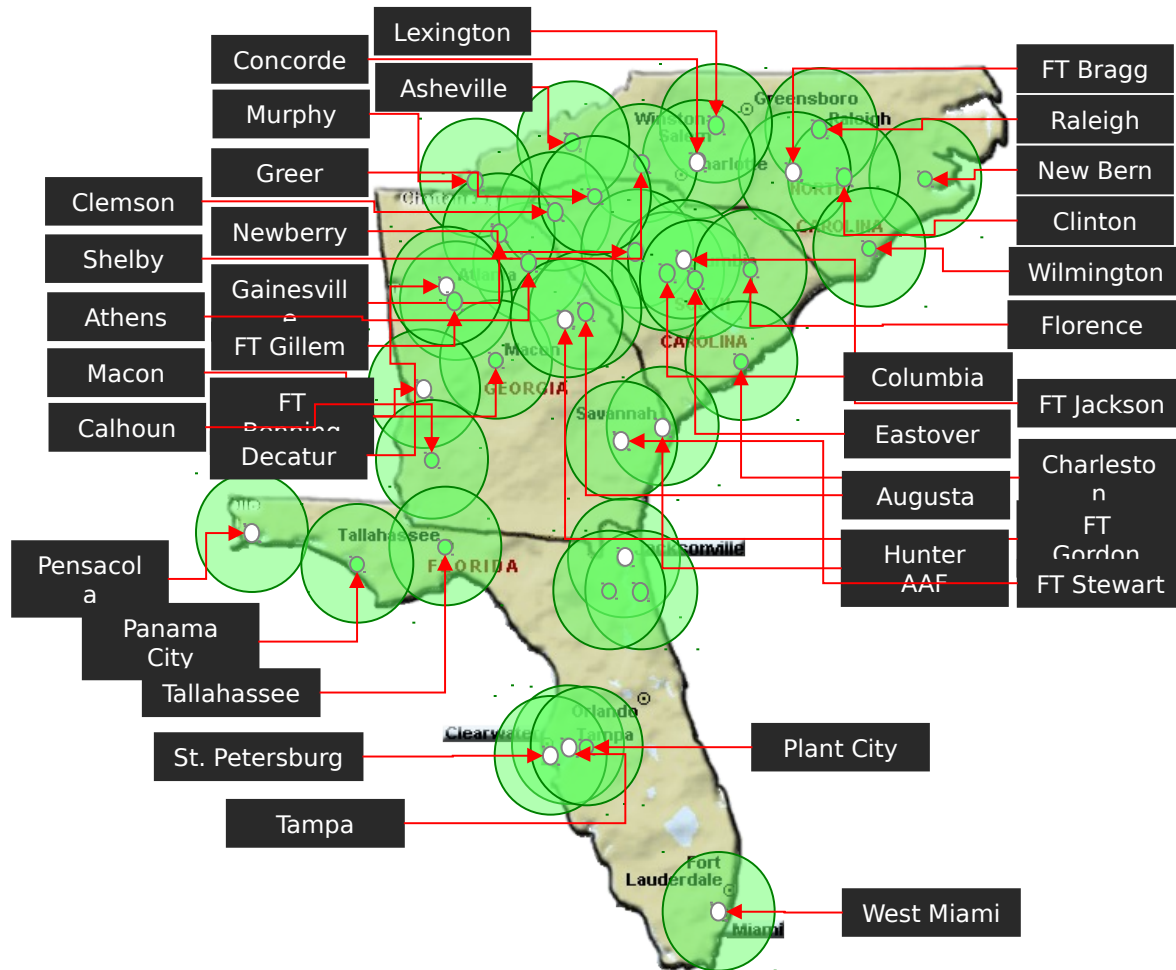
# Fielded Digital Training Facilities Worldwide



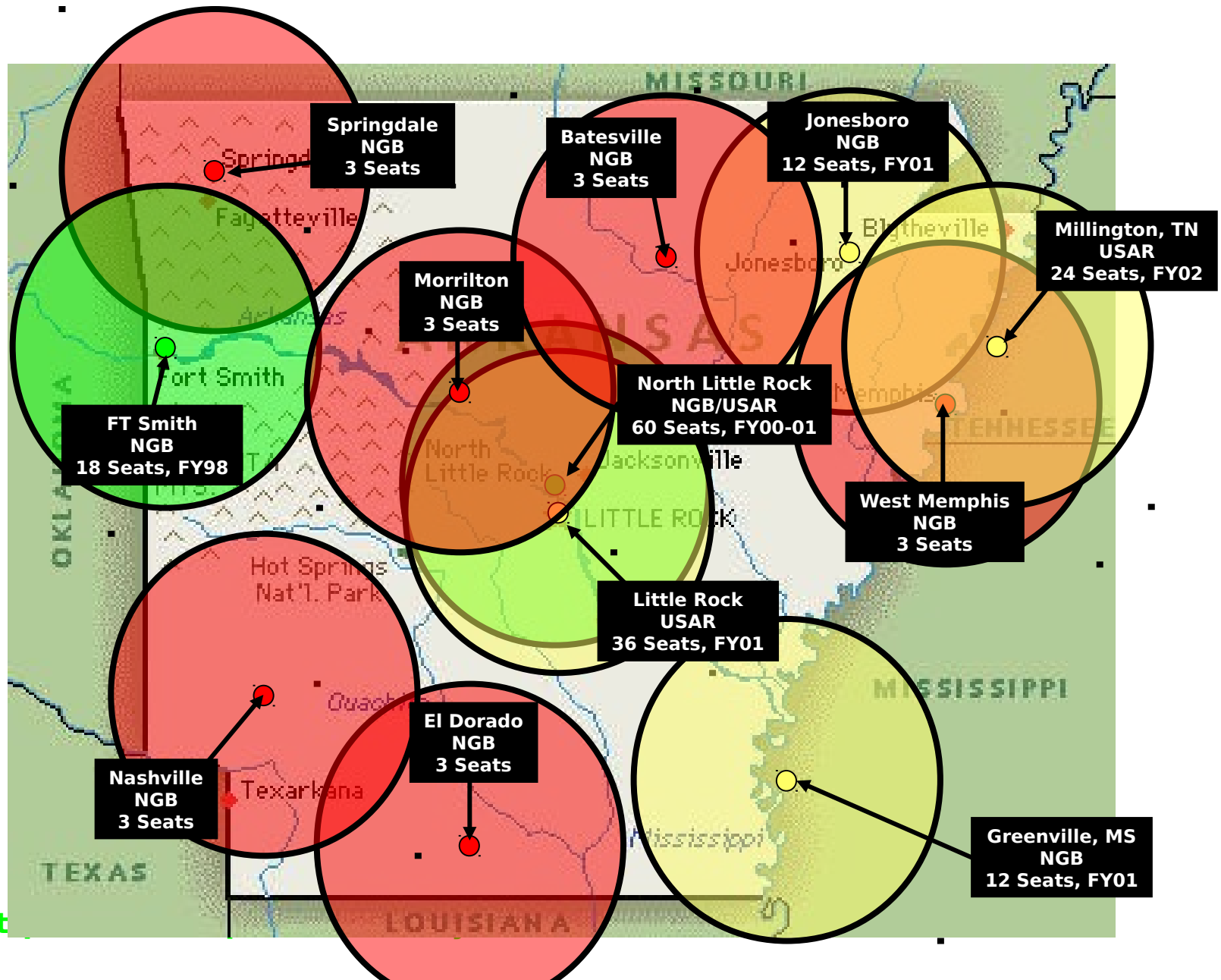
# Future Digital Training Facilities Worldwide



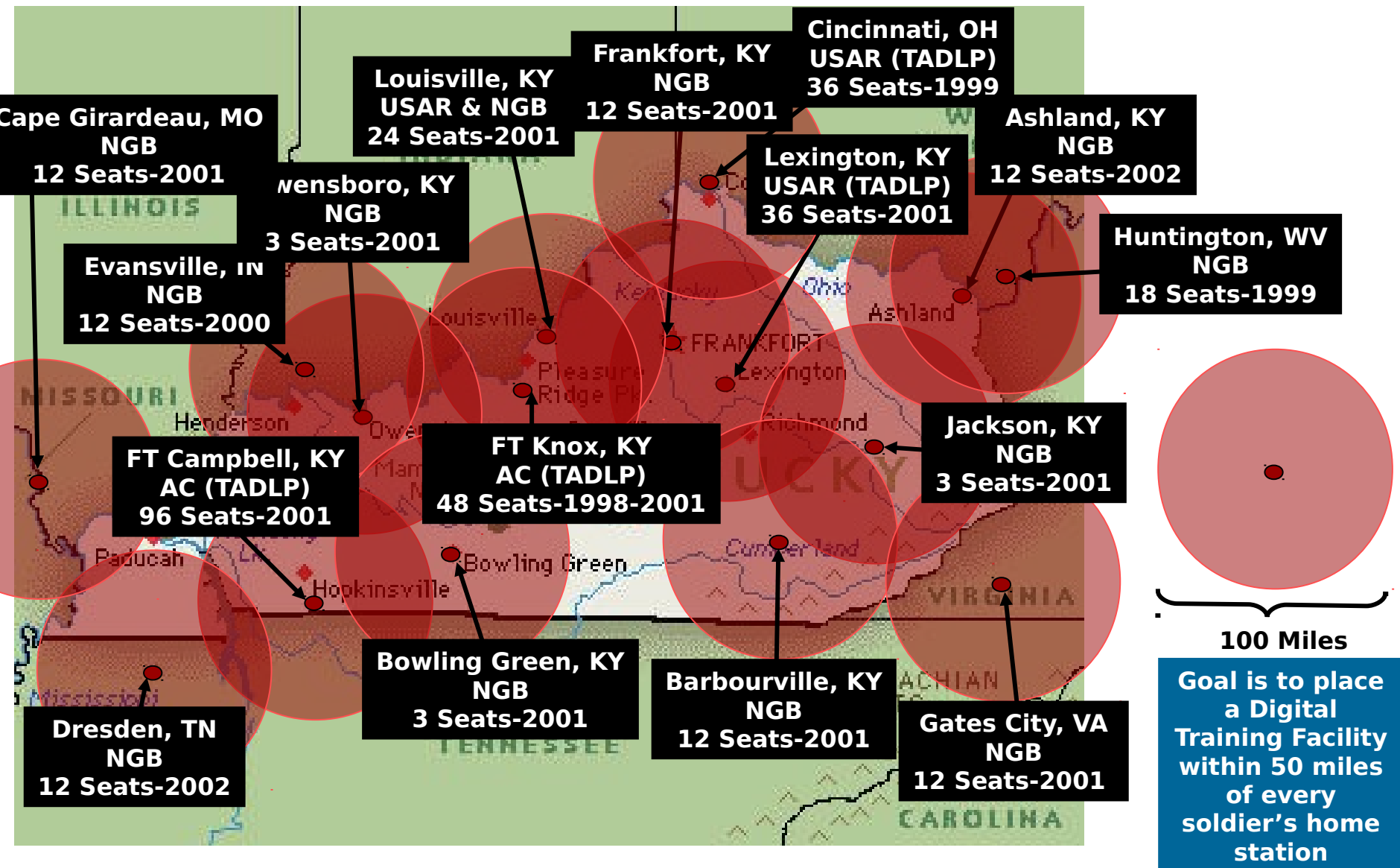
# Region C Fielded DTF Locations TADLP/DTTP Combined



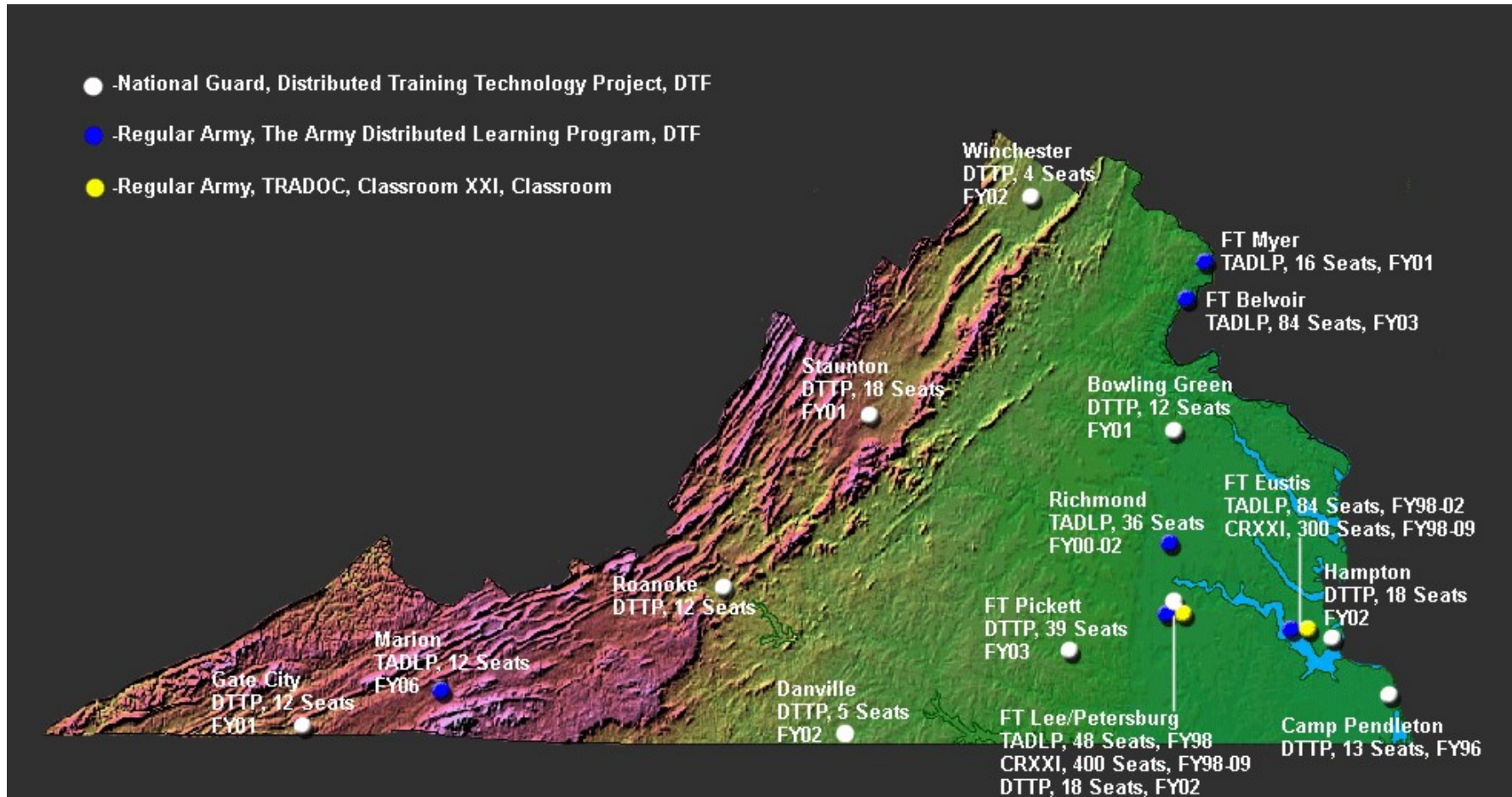
# Arkansas' DTFs



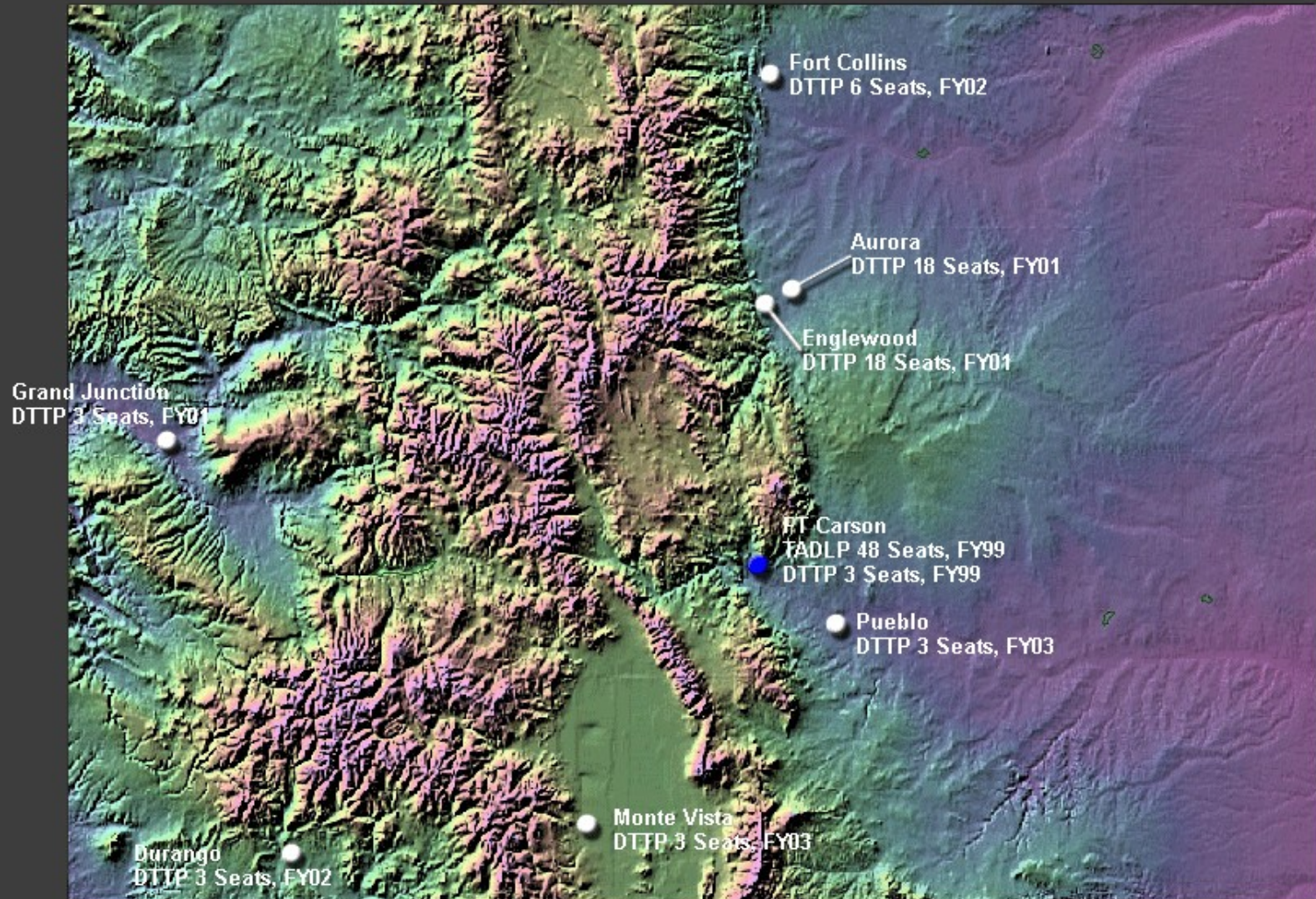
# Kentucky DTF Locations



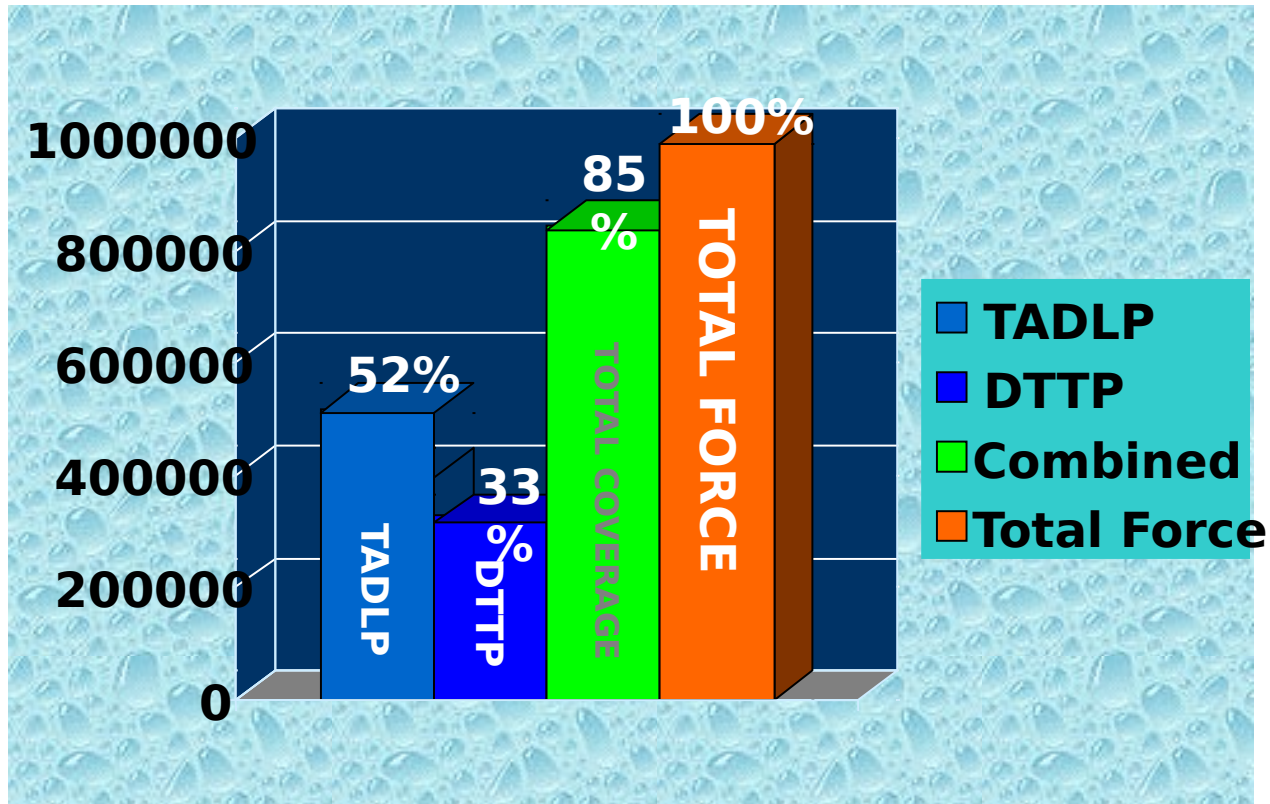
# Virginia DTF Locations



# Colorado DTF Locations



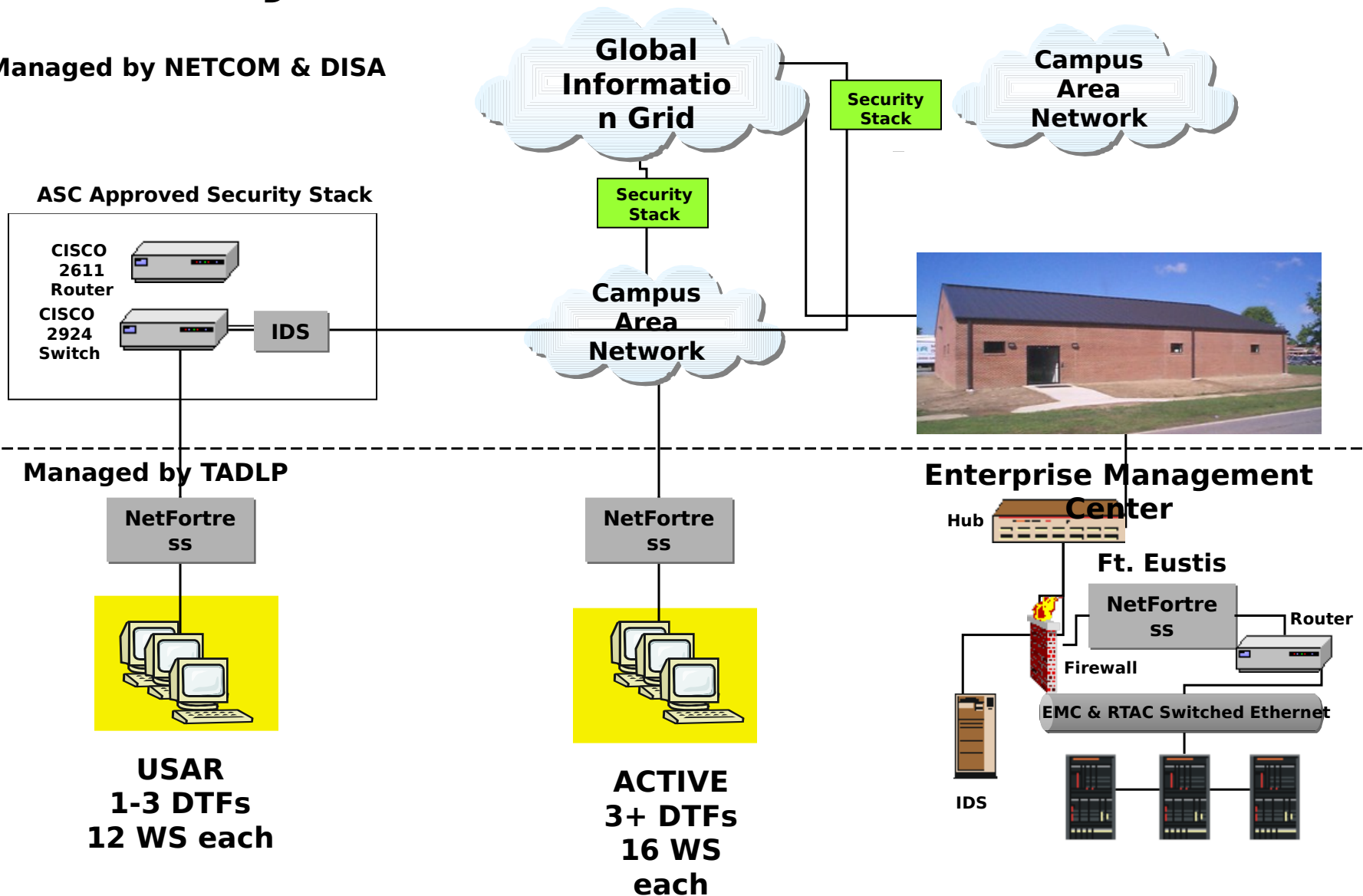
# TADLP DTF Footprint on the Force



As of August 2002 the combined TADLP/DTTP programs have fielded 541 Digital Training Facilities. This quantity results in 85% coverage of the Force in terms of accessibility to a DTF within 50 miles of home station.

# System Architecture

Managed by NETCOM & DISA



# Classroom XXI

## Modernizes TRADOC School resident classrooms

- Total of 270 CRXXI classrooms scheduled for installation through FY09
  - 42 Installed to date
- Each installation with a CRXXI presence is provided \$100K per year for 2 system administrators to maintain & operate the technology in the DTAC & CRXXI.

**High Technology,  
Networked  
CRXXI Classrooms With  
VTT**



# **Modernizes Resident Classrooms in TRADOC School**

**One Supporting Network  
Room per Installation**



**270 High Technology, Network  
Classrooms with Video Teletra**

# FY98-02 vs End-State Fielding

Installation/School	Operational	Total
Aberdeen Proving Ground - Ordnance school	2	13
Fort Benning - Infantry School	2	23
Fort Bliss - Air Defense Artillery School	1	9
Fort Bliss - Sergeant Major Academy	5	6
Fort Eustis - Aviation Logistic School	4	7
Fort Eustis - Transportation School	3	8
Fort Gordon - Signal School	2	24
Fort Huachuca - Intelligence School	1	16
Fort Jackson - Chaplain School	0	3
Fort Jackson - Soldier Support Institute	1	19
Fort Knox - Armor School	2	16
Fort Leavenworth - Command & General Staff College	5	35
Fort Lee - Army Logistic Management College	0	7
Fort Lee - Quartermaster School	2	13
Fort Leonard Wood - Eng, MP, & Chem Schools	12	27
Fort Rucker - Aviation School	1	14
Fort Rucker - Warrant Officer Career College	2	4
Fort Sill - Field Artillery School	3	16
Presidio Of Monterey - Defense Language Institute	1	5
Redstone Arsenal - Ordnance Missile and Munitions School	1	5
Total High Tech Classrooms	50	270
Startups	7	
Total Operational Classrooms	57	



- Open architecture
- Standards compliant
- Fully networked multimedia classrooms
- Interoperable VTT
- Self-paced, individualized training
- Internet access
- Connected to installation backbone
- Printer/fax

## Architectural Specifications

## CRXXI Standards

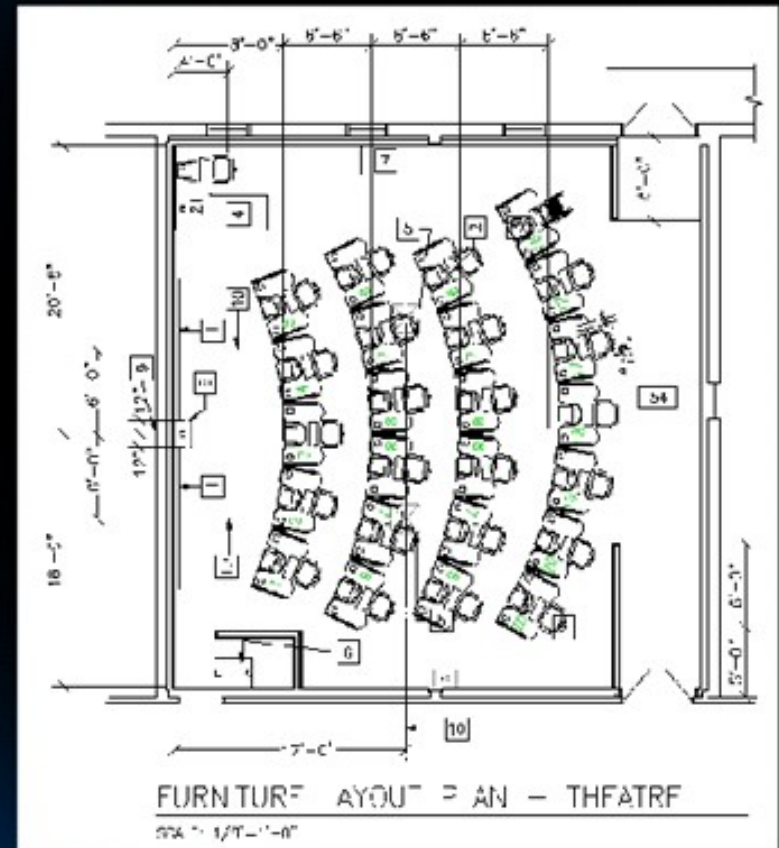
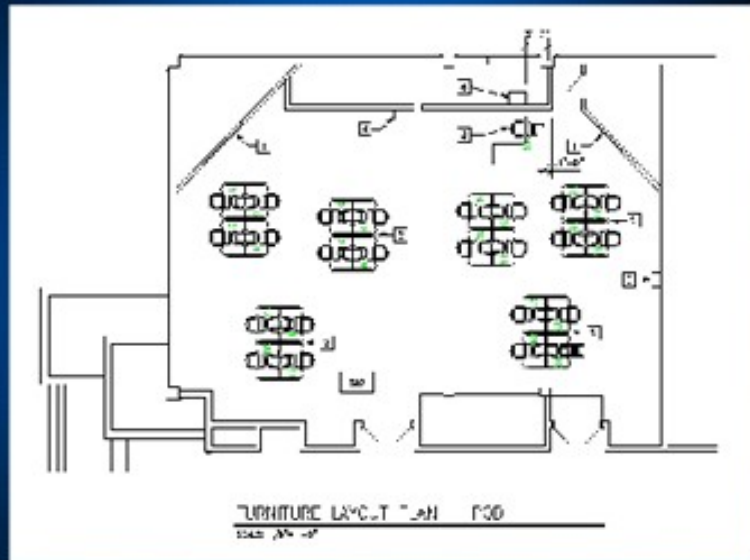
- **Sight lines**
- **Large screens/sound system**
- **Non-glare lighting**
- **Acoustical treatment**
- **Raised floors for cabling**
- **Electrical upgrades**
- **Ergonomic desks & chairs**



CRXXI

# 20-24 Students

## Standard Classroom Configurations



**Before**



CRXXKI

**After**



**Before**



CRXXI

**After**



# **CRXXI System Administrators**



- **2 per installation**
- **Maintain technology in Classrooms and DTAC**
- **Install upgrades as directed**
- **Assist instructors with classroom operation**
- **Provide instructor refresher training on classroom technology & operation**

# TECHNOLOGY

## TECHNOLOGY

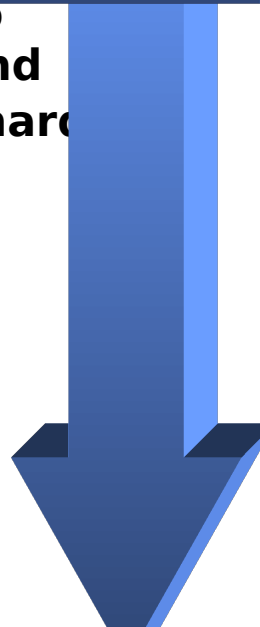
- Integrated VTT system
- Video /Data projection system
- Audio system
- Document camera
- Student Multimedia computers
- Instructor classroom management system
- Internet, CNN, live video source (camera), command channel, VCR
- Video-on-demand and multicasting
- Net Meeting
- Oracle bundled software

## TRAINING CAPABILITY

- Transmit / Receive VTT
- Presentation of computer instruction VTT, video
- Classroom audio & VTT sound
- Displays 3D objects, print (hard copy)
- Interactive multimedia courseware
- Instructor assists student
- Access to worldwide information
- Full-motion, digital video to desktop
- Collaborative computing (whiteboarding, file sharing, chat)
- Instructor development tools

**Instructor  
Centered**

**Student  
Centered**



# Instructor Presentation System



## Video/data projection

- Displays computer sources including digital training lessons & courseware, VTT, and video

## Audio 20-inch+ projector

- Classroom sound reinforcement screens
- 2-way VTT audio
- Boom microphone on headset for instructor assist & Net Meeting



# Instructor Control Panel



- **Raise/lower projector screens automatically**
- **Turn projectors on/off**
- **Control 4 zones of lighting**
- **Cue up videotape**
- **Control volume**
- **Preview sources for presentation**
- **Switch sources for one or both screens:  
computer, VTT, VCR, document camera**



# Instructor Classroom Management & Control Panel

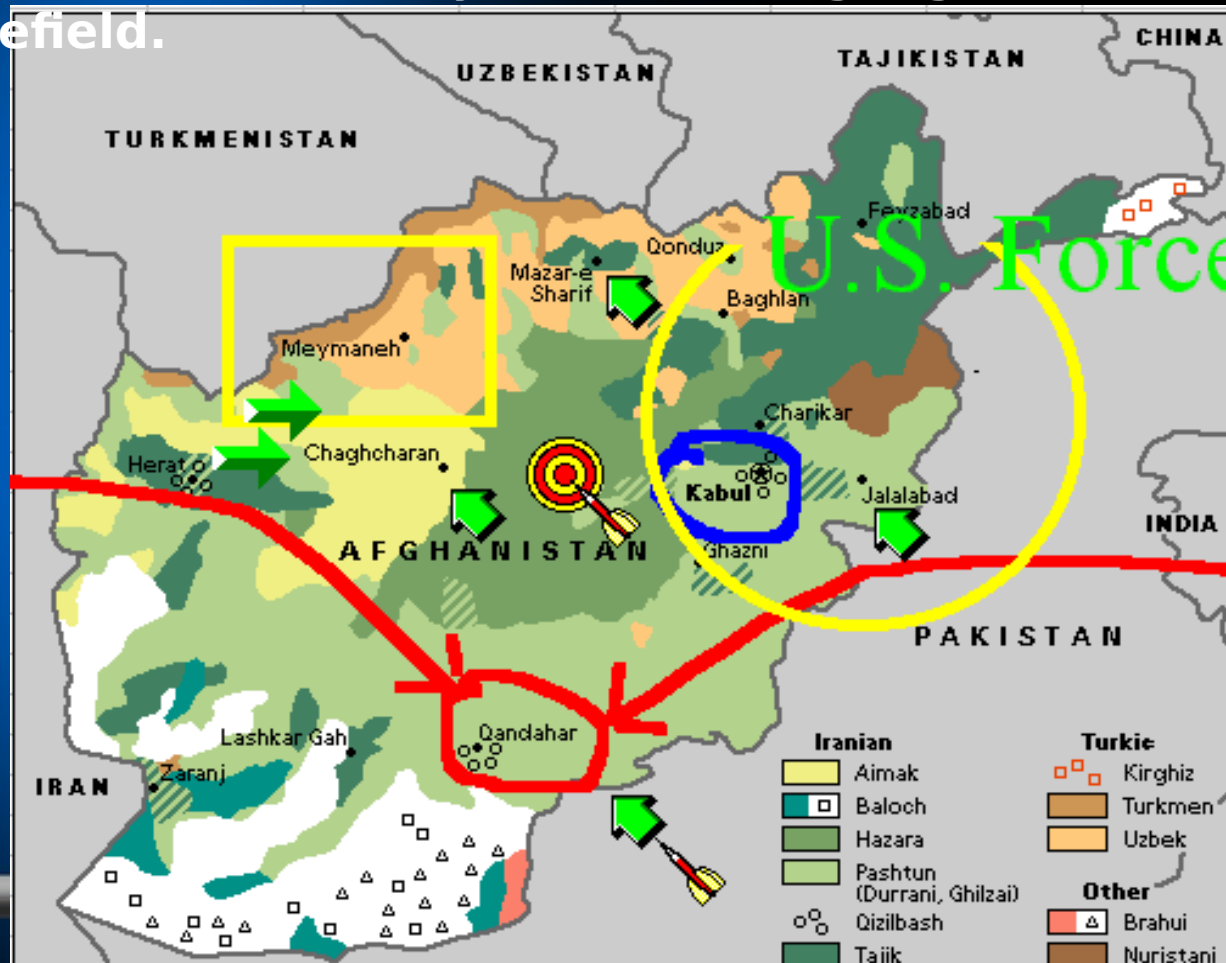


Instr. To Screen A	Main Menu	Return	Clear Queue	Configure	Give Quiz	Hear Student PC Audio	Instr. To Screen B
		Student To Projector	Direct To Projector	Show	Show To All	Instr.PC Audio Out	
Student To Screen A		Reset	View	Freeze	Freeze All	Talk With Individual	Student To Screen B
	Scan Menu	Student View	Keyboard/Mouse	Blank	Blank All	Talk To All	



**Classroom Instructor electronically assists & monitors students (individuals or groups)**

**Scenario: When conducting a training exercise, the instructor uses the stylus tool to highlight movement on the battlefield.**



# Capabilities (cont)



## Net Meeting & CRXXI Software

Collaborative computing (white boarding, file sharing, chat)

## Oracle Bundled Software

Instructor tools to develop quick-on-the-fly lessons

## Document camera (backup)

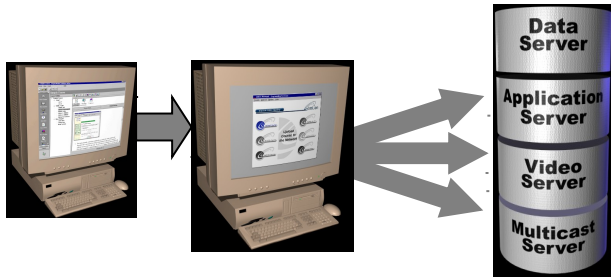
Displays 3D objects and print copy

## VCR/DVD (backup)

Play videotapes not digitized



# Digital Training Access Center (DTAC)



## Training-on-Demand

- Stores courseware for access & delivery of full-motion digital training & video to the desktop

- Allows students access to same/different courseware anytime

